

**DEPARTMENT OF THE INTERIOR – AVIATION MANAGEMENT**  
**AIRCRAFT RENTAL AGREEMENT PROVISIONS: SUPPLEMENT NO. 8**  
**FUEL SERVICING VEHICLE**

**B8.8.1 FUEL AND SERVICING REQUIREMENTS: GENERAL**

B8.8.1.1 All fuel, commercial or military, shall be approved for use by the airframe and engine manufacturer. Aviation fuel must meet American Society for Testing and Material (ASTM) or Military specifications [ASTM D-1655 (Jet A, A-1, or B), Mil T5624 (JP-4, JP-8, JP-5), ASTM-D-910 or MIL T-910 (Grade 80,100,or 100LL)].

B8.8.1.2 Vendors obtaining fuel directly from distributors shall validate fuel delivered meets the specifications of paragraph B8.8.1.1. Fuel delivery tickets shall be kept with the fuel delivery vehicle.

B8.8.1.3 Fueling operations, including storage and handling shall comply with the airframe and engine manufacturer's recommendations and all applicable FAA standards. The Vendor shall have a fuel quality assurance program. The National Fire Protection Association (NFPA) Manual #407 Standard for Aircraft Fuel Servicing shall be used as a guide. Passengers shall not be on board the aircraft during fueling operations. Copies of NFPA Manual #407, "Aircraft Fuel Servicing", can be obtained from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Maintenance and security of fuel storage and fueling facilities are the Vendor's responsibility.

B8.8.1.4 Fuel shall pass through a filtering system as outlined in section B8.8.4 in accordance with the filter manufacturer's recommendations.

**B8.8.2 FUEL SERVICING VEHICLE: GENERAL**

B8.8.2.1 As stated in the contract terms and conditions of the document, the Vendor shall comply with all applicable federal, state, and local laws. Vendor fuel servicing vehicles must meet all requirements of 49 CFR applicable to the type of fuel being transported. NOTE: 49 CFR 171.1© pertains to persons under contract to the federal government.

B8.8.2.2 The Vendor shall supply a fuel servicing vehicle when necessary to support operations. The fuel-servicing vehicle shall be approved annually by the government. The fuel-servicing vehicle shall display a current USDI/DOI AM or USDA/FS inspection sticker. This approval/inspection sticker is only an indication that the vehicle meets the additional equipment requirements of this procurement, and in no way indicates that the vehicle meets any requirement of 49 CFR.

B8.8.2.3 Fuel servicing vehicles shall be properly maintained, clean, and reliable. Tanks, plumbing, filters, and other required equipment shall be free of rust, scale, dirt, and other contaminants. All leaks shall be repaired immediately.

B8.8.2.4 All tanks shall be securely fastened to the vehicle bed and shall have a sump or sediment settling area.

B8.8.2.5 Filter and pump sizes shall be compatible with the helicopter being serviced. The fuel servicing vehicle shall, at a minimum, provide a 10-gallon per minute flow rate measured at the nozzle.

B8.8.2.6 Gasoline engine driven pumps shall have a shielded ignition system and an approved spark arrestor muffler. All refueling pumps regardless of power source shall be listed for use with petroleum products. (UL, FM, etc.)

B8.8.2.7 Trailers shall have an effective wheel-braking system. The power for the trailer braking system shall be controlled from the towing vehicle.

**B8.8.3 FUEL SERVICING VEHICLE: EQUIPMENT**

## Revised (01/06)

B8.8.3.1 Each aircraft fuel servicing tank vehicle shall have two fire extinguishers, each having a rating of at least 20-B: C: with one extinguisher mounted on each side of the vehicle. Extinguishers shall comply with NFPA 10 Standards for Portable Fire Extinguishers.

B8.8.3.2 Tanks erected for above ground storage, and tanks mounted on vehicles shall be designed to allow contaminants to be removed from the sediment settling area.

B8.8.3.3 Only hoses compatible with the aviation fuel being serviced shall be used. Hoses shall be kept in good repair.

B8.8.3.4 Aircraft refueling nozzles shall include a 100 mesh or finer screen, a dust cover, and a bonding cable with clip or plug. Nozzle holds open devices are not permitted.

B8.8.3.5 An accurate fuel-metering device for registering quantities in U.S. gallons of fuel pumped shall be provided. The meter shall be visible to the fuel handler while servicing the aircraft.

B8.8.3.6 Fuel servicing vehicles shall have bonding cables with clip/plug to allow system-to-aircraft bonding stipulated in NFPA Manual #407.

B8.8.3.7 Fuel servicing vehicles shall carry petroleum product absorbent pads or materials to absorb or contain a five-gallon petroleum spill. The Vendor is responsible for proper disposal of all products used in the cleanup of a spill in accordance with the EPA (40 CFR Part 261 and 262).

### **B8.8.4 FUEL SERVICING VEHICLE: FILTERING SYSTEM**

B8.8.4.1 Filtration must be sized to withstand fuel system pressures and flow rates.

B8.8.4.2 The filter manufacturer's Operating, Installation, and Service Manual shall be with the fuel-servicing vehicle and complied with.

B8.8.4.3 Filtration must meet one of the following qualifications: American Petroleum Institute (API) Bulletin 1583 Institute of Petroleum (IP) Specifications and Qualification Procedures, Aviation Fuel Monitors with Absorbent Type Elements, or API 1581 Specifications and Qualification Procedures for Aviation Jet Fuel Filter/Separators. Three-Stage (coalescer cartridge(s), separator cartridge(s), and monitor(s)) Systems are API 1581 or MIL-F-8901E qualified. Single-Stage System meeting API 1583 qualifications utilize a single element system. Filter manufacturer's (Velcon, Raycor, and Facet) manufacture filtration specifically for aviation refueling systems including single and three stage systems.

B8.8.4.4 The filter vessel shall be placarded indicating the filter change date. Spare filters shall be available to allow periodic and emergency filter changes

B8.8.4.5 Differential pressure gages must be installed on refueling systems operating at 25 PSI or above.

B8.8.4.6 If equipped with a drain, the bottom of the filter assembly shall be mounted to allow room for draining and pressure flushing into a container. If the unit is equipped with a water sight gauge, the balls shall be visible.

B8.8.4.7 A spare filter, seals, and other spare components of the fuel-servicing vehicle filtering system shall be stored in a clean, dry area within the fuel-servicing vehicle.

### **B8.8.5 FUEL SERVICING VEHICLE: MARKINGS**

B8.8.5.1 Each fuel-servicing vehicle shall have "NO SMOKING" signs with three-inch minimum letters visible from both sides and rear of vehicle.

B8.8.5.2 Each fuel-servicing vehicle shall be conspicuously and legibly marked to indicate the fuel grade. The markings shall be on each side and the rear in letters at least three inches high on a background of a sharply contrasting color.

Examples: JET-A white on black background or AVGAS 100 white on green background.

**B8.8.6 FUEL SERVICING VEHICLE: OPERATIONS**

B8.8.6.1 Government personnel shall not be involved with refueling of agreement aircraft.

B8.8.6.2 Smoking is prohibited within 50 feet of the aircraft and fuel servicing vehicles.

**B8.8.7 FUEL SERVICING VEHICLE: DRIVER DUTY LIMITATIONS**

B8.8.7.1 Fuel Servicing Vehicle Drivers shall comply with Department of Transportation (DOT) Safety Regulation 49 CFR Parts 390-399, including duty limitations. It is the Vendor's responsibility to insure that employees comply with DOT regulations. The fuel servicing vehicle driver shall have a minimum of two (2) full calendar days of rest (24-hour periods in Alaska) during any 14-day period. Off duty days need not be consecutive.

B8.8.7.2 The fuel servicing vehicle driver shall be responsible for keeping the Government apprised of his/her duty limitation status.

B8.8.7.3 Relief or substitute fuel servicing vehicle drivers reporting for duty under any contract may be required to furnish a record of all DOT duty time during the previous 14 days.

B8.8.7.4 Fuel servicing vehicle drivers may be removed from duty for fatigue or other causes created by unusually strenuous or severe duty before reaching duty limitations.

**B8.8.8 PERSONAL PROTECTIVE EQUIPMENT FOR GROUND OPERATIONS**

B8.8.8.1 While within the safety circle of an operating helicopter, all personnel shall wear the following PPE:

B8.8.8.2 Shirt with sleeves overlapping gloves and pants with legs overlapping boots, hard hat or flight helmet with chin strap fastened, hearing protection, and eye protection.

**Note:** Maintenance personnel working on a running aircraft are exempt from glove and hardhat requirements.

B8.8.8.3 In addition, fuel service vehicle operators shall wear non-static (example: cotton/natural fiber) clothing and gloves.